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DESCRIPTORS: Planets, *Venus, *Brightness, Meas-
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Photographic analysis, Physical properties, Spectro-
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<i>No 4</i>	<i>JPRS 2287</i>
<i>No 5</i>	<i>JPRS 3815</i>
<i>No 6</i>	<i>JPRS 3628</i>

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Gruzova, M. N.
THE FORMATION OF THE KARYOSPHERE IN THE
OOGENESIS OF PANORPA. [1962] [48]p. 23 refs.
FASEB manuscript no. S 225-2
Order from OTS or SLA \$4.60 63-19007
Figs. available on loan from OTS

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 2,
p. 150-159.

DESCRIPTORS: *Mitosis, Cells (Biology),
*Chromosomes, Morphology, Ribonucleic acids,
*Insecta.

The behavior of the nuclear structures in the oogenesis
of two species of Panorpa was observed, beginning
with the stage of prophase of meiosis up to anaphase
of the first reduction division. The chromosomes
begin to be collected in a karyosphere shortly after the
(Biological Sciences--Physiology, TT, v. 10, no. 9)
(over)

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2. Title: Panorpa
- I. Gruzova, M. N.
- II. FASEB S-225-2
- III. Federation of American
Societies for
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Washington, D. C.
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NLL RTS 2196 (*Loan*)

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Cholanthrene. I. Cytological Characteristics
of Tumors in Mice and Rats, by V. M. Bresler
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pp 264-275.

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NIH 11-10-63

Sci - Biol & Med
Jan 64

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FLOW BIREFRINGENCE OF MACROMOLECULAR
RNA SOLUTIONS. [1962] [7]p. 11 refs. FASEB
manuscript no. S 127-2.

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Trans. of ~~Debiologiya~~ (USSR) 1962, v. 4, no. 3,
p. 323-325.

DESCRIPTORS: Fluid flow, *Molecular structure,
*Ribonucleic acids, *Refraction, *Polymers, Biophysics,

The preliminary results of the study of the flow
birefringence of macromolecular RNA (ribonucleic acid)
solutions are described. The RNA was isolated from a
transplantable mucous carcinoma of the liver. An op-
tical apparatus with a half-shaded condenser was used
for studying the flow birefringence of the RNA solutions.
(Biological Sciences--Biochemistry, TT, v. 10, no. 6)
(over)

1. Title: Birefringence
2. Title: Macromolecules
1. Frisman, E. V.
- II. Yanovskaya, N. K.
- III. FASEB S-127-2
- IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- V. Scripta Technica, Inc.,
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Office of Technical Services

The Karyosphere in the Ontogenesis of Haps
Isthifera (Coleoptera) (Darkling Beetle),
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pp 335-338. P911280187
ABC ORNL Tr-1697

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Sci - Biol & Med
Sep 67

63-15995

Kannev, I. E. and Gordeeva, L. F.
EXCITATION OF EPITHELIAL CELLS AND TISSUES.
[1962] [12p, 12 refs. FASEB manuscript no. S128-2.
Order from OTS or SLA \$1.60 63-15995
Figs. available on loan from OTS

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 3,
p. 347-353.

DESCRIPTORS: Excitation, *Epithellum, *Cells
(Biology), *Tissues (Biology), *Histology, *Eye,
Frogs, Biological stains, Wounds and injuries,
Electric currents.

The cells of epithelial tissues respond to external
stimuli (mechanical, thermal, induction current) by
various morphophysiological changes. The character
of these changes depends on the distance between the
cell and the site of application of the agent. The range
(Biological Sciences, IT, v. 10, no. 2) (over)

I. Kannev, I. E.
II. Gordeeva, L. F.
III. FASEB S-128-2
IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
V. Scripta Technica, Inc.,
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63-15996

Bochkov, N. P. and Nemtseva, L. S.
USE OF THE TECHNIQUE OF INCUBATION OF
TISSUES IN VITRO TO STUDY MAMMALIAN
KARYOTYPES. [1962] (8)p. 12 refs. FASEB
manuscript no. S 129-2.
Order from OTS or SLA \$1.10 63-15996

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 3,
p. 365-367.

DESCRIPTORS: *Tissues (Biology), Mammals,
Colchicine, *Cytology, Culture media, *Mitosis,
Genes, *Cells (Biology), Genetics.

The technique of incubation of tissues in vitro,
modified for cytogenic purposes, was employed using
a salt medium containing colchicine. Mitosis con-
tinued to completion in bone marrow cells which were
incubated in physiological saline and in Meshkov-
(Biological Sciences--Pathology, TT, v. 10, no.7)
(over)

- I. Title: Karyotypes
- I. Bochkov, N. P.
- II. Nemtseva, L. S.
- III. FASEB S-129-2
- IV. Federation of American
Societies for
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Joint Scientific Session on Problems of the
N Biological Principles of Malignant Growth, by
N. H. Alsenova, V. N. Bresler, et al.

RUSSIAN, per, Tsitologiya, Vol IV, No 3, May/Jun
1962, pp BH 370-373. 9068176

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Sci - Biol
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OTS 62-33225

Svetlov, P. G.
EFFECT OF ENVIRONMENTAL CONDITIONS ON
SEX DETERMINATION IN DROSOPHILA MELANO-
GASTER. Jan/Feb 64, 7p 33refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T202-T208)

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 4,
p. 391ff.

DESCRIPTORS: *Environment, *Sex, Insects,
Determination, *Drosophilidae, Genetics.

(Biological Sciences--Zoology, TT, v. 11, no. 10)

TT-64-12541-1 (p. T202-T208)

I. Svetlov, P. G.
II. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

TT-64-13497

Nemchinskaya, V. L. and Braun, A. D.
CHANGES IN THE PROPERTIES OF ISOLATED CELL
NUCLEI IN THE COURSE OF SURVIVAL AND
AFTER EXPOSURE TO DIFFERENT AGENTS. [1963]
[27p] 16 refs FASEB manuscript no. S-121-3.
Order from OTS, SLA, or ETC \$2.60 TT-64-13497

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 4,
p. 409-417.

DESCRIPTORS: *Nuclei (Biology), Cells (Biology),
Biophysics, *Hypothermia, Nucleic acids, *Exposure,

- I. Nemchinskaya, V. L.
- II. Braun, A. D.
- III. FASEB-S-121-3
- IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

(Biological Sciences--Pathology, TT, v. 11, no. 8)

Office of Technical Services

Izakova, L. P.
GLYCOGEN DYNAMICS IN CELLS CULTIVATED IN
VITRO. Nov/Dec 63. 5p 26refs
Order from PASEE \$2.00 in Federation Proceedings
Transliteration Supplement, v. 22, no. 6, pt. II,
p. T1053-T1057

Trans. of Embryology (USSR) 1962, v. 4, no. 4,
p. 427-[433].

DESCRIPTORS: *Glycogen, *Cells (Biology), Trans-
plantation, Culture media, Cytochemistry, *Tissue
cultures,

(Biological Sciences, TT, v. 11, no. 10)

TT-63-17973-6
(P. T1053-T1057)

I. Izakova, L. P.
II. Federation of American
Societies for
Experimental Biology,
Washington, D. C.

Office of Technical Services

TT-63-24460

Shapiro, E. A.
THE SORPTION PROPERTIES OF NERVE DURING
DEVELOPMENT OF A PESSIMUM IN A NERVE-
MUSCLE PREPARATION. [1963] [8p] 11 refs
FASEB Manuscript no. S 123-3.
Order from OTS, SLA, or ETC \$1.10 TT-63-24460

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 4,
p. 449-451. (Abstract available)

DESCRIPTORS: *Absorption (Biological), *Nerves,
*Neuromuscular transmission, Biological stains,
Stimulation, Electrokymography, Histological
techniques,

A vital staining method was used to investigate the
changes in the sorption properties of the nerve during
the development of a pessimum in a nerve-muscle
preparation as a result of the prolonged application of
(Biological Sciences--Physiology, TT, v. 11, no. 6)
(over)

- I. Title: Pessimum
- I. Shapiro, E. A.
- II. FASEB-S-123-3
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Concerning the Hemolytic Action of Thiol
Poisons, by V. V. Sokolovskiy, 10 pp.

RUSSIAN, per, Toxicologiya, No 4, 1962,
pp 460-465.

JPRS 16304

Eol - Chem

Nov 62

217,865

SYMPOSIUM ON NEUROSECRETORY ELEMENTS AND THEIR
SIGNIFICANCE IN THE ORGANISM, BY A. L. POLENOV,
6 PP.

RUSSIAN, PER, TSITOLOGIYA, VOL IV, NO 4, 1962,
PP 473-476.

JPRS 17947

SCI - MED

MAR 63

224,640

TT-63-17973-6
(T. T1017-T1021)

Aksenova, N. N., Bresler, V. M., Vorob'ev, V. I.,
and Olenov, Yu. M.

EFFECT OF RIBONUCLEIC ACIDS ISOLATED FROM
THE LIVER ON TRANSPLANTABILITY AND
GROWTH OF A PRIMARY TUMOR. Nov/Dec 63, 5p
Brefa

Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, v. 22, no. 6, pt. II,
p. T1017-T1021

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 5,
p. 490ff.

DESCRIPTORS: *Ribonucleic acids, *Tumors, Cells
(Biology), *Liver, *Transplantation, Neoplasms,

I. Aksenova, N. N.
II. Bresler, V. M.
III. Vorob'ev, V. I.
IV. Olenov, Yu. M.
V. Federation of American
Societies for
Experimental Biology,
Washington, D. C.

(Biological Sciences--Pathology, TT.v. 11, no. 10)

Office of Technical Services

Salganik, R. P., Kiknadze, I. L., Morozova, T. M.,
Gubenko, I. S., and Drevich, V. F.
NATURE OF PYRONINOPHIL GRANULES OF THE
ISOLATED CELL NUCLEI FRACTION. Jan/Feb 64,
5p 20refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T23-T27)

Trans. of *Tsitologiya (USSR) 1962, v. 4, no. 5,
p. 499ff.

DESCRIPTORS: *Cytochemistry, *Nuclei (Biology),
Cells (Biology), Ribonucleic acids, Biological stains,
Histology.

(Biological Sciences, TT, v. 11, no. 10)

TT-64-12541-1 (p. T23-T27)

- I. Title: Pyroninophilia
- I. Salganik, R. P.
- II. Kiknadze, I. L.
- III. Morozova, T. M.
- IV. Gubenko, I. S.
- V. Drevich, V. F.
- VI. Federation of American
Societies for Experimental Biology,
Washington, D. C.

Office of Technical Services

Zalkind, S. Ya. and Zaslavskii, V. G.
CELL ADAPTATION TO CONDITIONS OF CULTIVA-
TION IN VITRO. Jan/Feb 64, 6p 25refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T31-T36)

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 5,
p. 519M.

DESCRIPTORS: Cells (Biology), *Adaptation (Physiology),
*Tissue culture, Transplantation, *Culture media.

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-12541-1 (p. T31-T36)

I. Zalkind, S. Ya.
II. Zaslavskii, V. G.
III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Sologub, M. I.
CHANGES IN THE INTRACELLULAR RESTING
POTENTIAL GRADIENT IN MUSCLE FIBER IN THE
COURSE OF ALTERATION. [1963] [18]p. 2 refs.
FASEB manuscript no. S166-3.
Order from OTS or SLA \$1.60

63-23834

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 5,
p. 530-537.

DESCRIPTORS: *Bioelectronics, *Cells (Biology),
*Muscles, Tissues (Biology), Electric potential,
Biophysics.

Intracellular resting potentials of the altered muscle
fiber of the sartorius muscle of the grass frog were
investigated by a microelectrode technique. During
continuous recording of resting potentials from the
same area of a fiber, changes in the potentials were
(Biological Sciences--Physiology, TT, v. 10, no. 11)
(over)

63-23834

- I. Sologub, M. I.
- II. FASEB S 166-3
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Physiological Gradients of the Ciliate *Spirnostomum*
Ambiguum, by L. N. Seravin.

RUSSIAN, per, Titologiya, Vol IV, No 25, 1962,
pp 545-554

~~RUSSIAN~~

ALL RIS 2284

(Loan)

FASEB

Sci - Biol & Med Sci
Feb 54

248,279

Mashanski, V. F.
STRUCTURE OF THE MITOCHONDRIA: SHORT
REPORTS. [1963] [13]p. 31 refs. FASEB manuscript
no. S168-3.
Order from OTS or SLA \$1.60 63-23864

Trans. of Tsitolgiya (USSR) 1962, v. 4, no. 5,
p. 555-558.

DESCRIPTORS: Histology, Morphology, *Cells
(Biology); *Microsomes, *Electron microscopy.

Based on a discussion of the data from the literature
and original observations of the ultrafine organization
of various unicellular and multicellular organisms, it
is concluded that the character and dimensions of the
paired mitochondrial membranes do not support
Sjostrom's views that the interval between them is
occupied by a lipid layer. Each of the membranes
(Biological Sciences, TT, v. 10, no. 11) (over)

63-23864

- I. Mashanski, V. F.
- II. FASEB S-168-3
- III. Federation of American
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Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Dmitrieva, N. P.
SUBMICROSCOPIC CHANGES IN BROWN-PEARCE
TUMOR CELLS AFTER EXPOSURE TO ULTRA-
SOUND, Jan/Feb 64, Sp 14refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T46-T50)

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 5,
p. 559ff.

DESCRIPTORS: *Electron microscopy, *Cancer,
Cells (Biology), *Ultrasonic radiation, Histology.

(Biological Sciences--Pathology, TT, v. 11, no. 10)

TT-64-12541-1 (p. T46-T50)

1. Title: Brown-Pearce
Tumors

I. Dmitrieva, N. P.
II. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Karmysheva, V. Ya.

POLYSACCHARIDES OF MAMMALIAN OVARIES IN NORMAL CONDITIONS AND IN ACUTE RADIATION SICKNESS. Given at the Conference on Histochemistry of Polysaccharides, Moscow, 7 May 60. [1963] [12p] 16 refs FASEB Manuscript no. : S 170-3. Order from OTS, SLA, or ETC \$1.60 TT-63-24474

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 5, p. 565-570. (Abstract available)

DESCRIPTORS: *Polysaccharides, *Ovary, Glycogen, Mammals, *Radiation sickness, Radiation effects, Histological techniques.

The ovaries of mammals contain glycogen, hyaluronic and chondroitin-sulfuric acids, and specific polysaccharides of the degenerating oocytes, macrophages and giant cells, combined with proteins and lipids. Glycogen in large amounts is found in the cytoplasm of the oocytes (Biological Sciences--Radiobiology, TT, v. 11, no. 6) (over)

TT-63-24474

- I. Karmysheva, V. Ya.
- II. FASEB-S-170-3
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.
- V. Title: Conference...

Office of Technical Services

Veselkina, M. N.
DNA SYNTHESIS AND PROLIFERATION OF CORNEAL
EPITHELIAL CELLS AFTER IRRADIATION WITH
ROENTGEN RAYS. [1963] [11p] 13 refs FASEB
manuscript no. S 171-3.
Order from OTS, SLA, or ETC \$1.60 TT-64-13505
figs. available on loan from OTS
Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 5,
p. 571-573.

DESCRIPTORS: *Desoxyribonucleic acids, *Epithelium,
Reproduction (Physiology), *Cornea, Cells (Biology),
*Radiation effects,

(Biological Sciences--Radiobiology, TT, v. 11, no. 9)

TT-64-13505

- I. Veselkina, M. N.
- II. FASEB-S-171-3
- III. Federation of American
Societies for Experimental
Biology, Washington, D.C.
- IV. Scripta Technica, Inc.,
Washington, D.C.

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The Mechanism of Ciliary Beat Reversal in the
Infusorian *Spirostomum Ambiguum*, by L. N. Seravin.

RUSSIAN, per, Tsitologiya, Vol IV, No 6, 1962,
pp 652-660.

ILL RPS 228; (*Locn*)

Sci - Biol & Med Sci
Feb 64

248,280

Ultraweak Spontaneous Luminescence of Animal
Tissue, by B. N. Tarusov.
RUSSIAN, paper, Tsitologiya, Vol 4, No 6, 1962,
pp 696-699.
NASA TT F-11,093

Sci-B&M
Sept 67

342,009

S-355/63

Urgent Problems of the Organization of Research
on Cytology in the Light of the Decisions of the ^{4pp}
November Plenum of the Central Committee CPSU, SF 2601

RUSSIAN, per, Tsitologiya, Vol V, No 1, 1963,
pp 3-4.

*JPRS 19091

Sci - Biol

Apr 63

NORMAL HUMAN CHROMOSOMES, BY A. A. PROKOF'YEVA-
BEL'GOVSKAYA, 28 PP.

RUSSIAN, PER, TSITOLOGIYA, VOL V, NO 1, 1963,
PP 5-23.

JPRS 19091

SCI-BIOL & MED SCI
MAY. 63

229,975

Study of Mitotic Cycles by Autoradiography, by
M. G. Chumak.
RUSSIAN, per. Tsitologiya, Vol 5, 1963, pp 24-35.
P011302167
ABC UCRL-TRANS-10108

Sci-Nucl Sci
Nov 67

343,637

Cytochemical Investigation of Thiols at
Various Developmental Stages of Elmeria
Intestinalis, by T. V. Beyer.

RUSSIAN, per, Tsitologiya, 1963, Vol 5,
No 1, pp 61-68.

MLL RTS 2609 (On Loan or Purchase)

CFSTI # 64-23514

Aug 65

287,142

THE EFFECT OF THE MAINTENANCE TEMPERATURE ON THE
HEAT RESISTANCE OF HYDRAS AND THEIR CELLS, BY
I. N. DREGOL'SKAYA, 19 PP.

RUSSIAN, PER, TSITOLOGIYA, VOL V, NO 2, MOSCOW,
1963, PP 194-203.

JPRS 19782

SCI-BIOL

JUN '63

234,741

Alteration in the Succidehydase Activity of
the Various Developmental Stages of the Rabbit
Coccidian Under the Influence of Furaciline,
by T. V. Beier.

RUSSIAN, per, Tsitologiya, 1963, No 3, pp 70-74.
NLL RTS 2610 (On Loan or Purchase)

Aug 65

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TT-63-23546

L. Trans-A-1400

URGENT PROBLEMS OF CYTOLOGY. 6 Aug 63, 5p
Trans. A-1400.
Order from OTS, SLA, or ETC \$1.10 TT-63-23546

Trans. of Tsitologiya (USSR) 1963, v. 5, no. 3,
p. 261-262. 9212624

DESCRIPTORS: *Cells (Biology). Medical research.

(Biological Sciences--General, TT, v. 11, no. 9)

Office of Technical Services

G-775-67

NY-13763
16 Jun 67

Contractile Protein from Liver Mitochondriam
by B. F. Poglazov,
RUSSIAN, per, Tsitologiya, Vol V, No 3, May-Jun
1963, pp 338-339.

Jun 67

Report on ~~at~~ the Second Meeting on Polyploidy, by
Yu. L. Goroshchenko, N. A. Chuksanova, 11 pp.
RUSSIAN, per, Tsitologiya, Vol V, No 3, 1963,
pp 359, 362.

NLL Tr Bulletin
Vol V, No 12, 1963

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Feb 64

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NEW DATA ON CHANGES IN THE CELL SUBSTANCE FROM
INJURY AND EXCITATION, BY D. L. ROZENTAL,
A. S. TROSHIN, 18 PP.

RUSSIAN, PER, TSITOLOGIYA, VOL V, NO 4, PP 365-378.

J PRS 21894

SCI-BIOL & MED SCI
NOV 63

242,2810

CYTOLOGICAL STUDY OF THE FEMALE GONADS OF THE
COELENTERATE POLYPODIUM HYDRIFORME, BY YE. V. RAYKOVA,
18 PP.

RUSSIAN, PER, TSITOLOGIYA, VOL V, NO 4, 1963,
PP 391-403.

JPRS 21899

SCI-BIOL & MED SCI
NOV. 63

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Cytology and Scientific World Outlook,
(NY-9017)

RUSSIAN, per, Tsitologiya, & Vol V, No 5, 1963,
pp 485-486.

*JPRS

Sci - Biol & Med
Jan 64